

CLAIMS

What is claimed is:

1. A flange connection between a face end of a longitudinal beam of a vehicle as a first component, and a carrier element mounted to it in its longitudinal direction, as a second component, whereby a flange plate having an outer side is operatively mounted to either the first or second component and a counter flange plate having an outer side operatively mounted to the other of the first or second component, and wherein the outer side of the flange plate and the outer side of the counter flange plate are held tight and in contact to each other, said flange connection comprising:

a connection bolt having a wedge slope, and wherein a first end of the connection bolt protrudes from the outer side of the flange plate, wherein the wedge slope extends in the cross direction of said connection bolt from an upper edge at an upper side of the connection bolt in a direction toward the flange plate, such that the counter flange plate exhibits, at the flange plate, a feed-through opening for receiving the connection bolt, and wherein a locking component is placed on an inner side of the counter flange plate, wherein in a connected position, said locking component having a wedge surface surrounds the connection bolt and said wedge surface is received by the wedge slope; and

a clamping screw that can be tightened against the connection bolt.

2. The flange connection as set forth in claim 1, wherein the connection bolt is arranged centrally at the flange plate.

3. The flange connection as set forth in claim 1, wherein the connection bolt exhibits a transverse groove formed into the connection bolt in a radial direction, with a flank of the groove positioned away from the flange plate forming the wedge slope.

4. The flange connection as set forth in claim 1, wherein the connection bolt exhibits a square or rectangular cross-section, wherein the connection bolt has side surfaces, and wherein one of the side surfaces of the connection bolt forms a contact surface for the clamping screw , and wherein the wedge slope is located at the side of the connection bolt that is opposite the contact surface.

5. The flange connection as set forth in claim 1, wherein the locking component has the shape of a closed ring.

6. The flange connection as set forth in claim 5, wherein the locking component has the shape of an angular ring, wherein

the wedge surface is located at a longitudinal bridge at an inner side of one of the straight ring sections.

7. The flange connection as set forth in claim 1, further including: a protruding console having a threaded hole that receives the clamping screw, forming a single piece at a side away from a contact side of the locking component.

8. The flange connection as set forth in claim 1, wherein a width of the feed-through opening in the counter flange plate is greater than a diameter of the connection bolt, and wherein the locking component is held proximate the counter flange plate in a movable fashion parallel to the inner side.

9. The flange connection as set forth in claim 8, wherein at the inner side of the counter flange plate , support lugs are arranged and protrude from the inner side and extend behind the locking component, and wherein play necessary for movement is provided between said support lugs and the locking component.

10. The flange connection as set forth in claim 1 wherein the feed-through opening of the counter flange plate has a width for guiding the locking component through, in a position different from the connected position.

11. The flange connection as set forth in claim 10, wherein the feed-through opening of the counter flange plate is square or rectangular, whereby the width of the feed-through opening in one of the longitudinal or cross directions or in one of the diagonal directions is greater than the outer width of the locking component.

12. The flange connection as set forth in claim 1 wherein the connection bolt is operatively mounted to the flange plate and further including a bead arranged around the connection bolt and wherein the bead is embossed from the outer side of the flange plate, by which an attachment region of the connection bolt is arranged recessed when compared to a remaining region of the flange plate in a direction away from the outer side.

13. The flange connection as set forth in claim 1, wherein the clamping screw of the locking component, which can be tightened against the connection bolt, is accessible from the outer side in an axial direction at the respective component.